INDEXES TO VOLUMES 58 AND 59 AUTHOR INDEX

Author	Title	Vol.	Page
ARNOLD, ANTON & NIER, FRANCIS	Numerical analysis of the deterministic particle method applied to the Wigner equation	58	645
ASH, AVNER & McConnell, Mark	Doubly cuspidal cohomology for principal congruence subgroups of $GL(3, \mathbb{Z})$	59	673
BANERJEE, UDAY & SURI, MANIL	The effect of numerical quadrature in the p-version of the finite element method	59	1
BATTERSON, STEVE & DAY, DAVID	Linear convergence in the shifted QR algorithm	59	141
BEATTIE, CHRISTOPHER & GREENLEE, W. M.	Improved convergence rates for intermediate problems	59	77
BERNARDI, CHRISTINE, COPPOLETTA, GIUSEPPE &	Some spectral approximations of two-dimensional fourth-order problems	59	63
Maday, Yvon	Tourist production 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• /	0.0
Boersma, J. & Dempsey, J. P.	On the numerical evaluation of Legendre's chi- function	59	157
BOHMAN, JAN & FRÖBERG, CARL-ERIK	The Γ-function revisited: Power series expansions and real-imaginary zero lines	58	315
DE BOOR, CARL & RON, AMOS	Computational aspects of polynomial interpola- tion in several variables	58	705
Bramble, James H. & Pasciak, Joseph E.	The analysis of smoothers for multigrid algorithms	58	467
Bremner, Andrew & Guy, Richard K.	Nu-configurations in tiling the square	59	195
Brenner, Susanne C. &	Linear finite element methods for planar linear		
SUNG, LI-YENG	elasticity	59	321
Broeze, Jan	See: van Daalen, Edwin F. G., Broeze, Jan & van Groesen, Embrecht	58	55
Broeze, Jan & van Daalen, Edwin F. G.	Radiation boundary conditions for the two- dimensional wave equation from a variational		
D I D. C.	principle	58	73
Buhler, J. P., Crandall, R. E. & Sompolski, R. W.	Irregular primes to one million	59	717
BUSSEMAKER, F. C. &	Exceptional graphs with smallest eigenvalue -2	50	503
NEUMAIER, A.	and related problems	59	583
Cai, Xiao-Chuan	See: Xu, Jinchao & Cai, Xiao-Chuan	59	311
CALVETTI, DANIELA	A stochastic roundoff error analysis for the convo-	59	569
CARLSON, B. C.	A table of elliptic integrals: two quadratic factors	59	165
Chaladus, Stefan	On the densest lattice packing of centrally symmetric octahedra	58	341
Chan, Raymond H. & Yeung, Man-Chung	Circulant preconditioners for Toeplitz matrices with positive continuous generating functions	58	233
CHEE, YEOW MENG &	Enumeration of small nonisomorphic 1-rotational	59	609

Author	Title	Vol.	Page
Chen, C., Thomée, V. & Wahlbin, L. B.	Finite element approximation of a parabolic integro-differential equation with a weakly singular kernel	58	587
CHUI, C. K., STÖCKLER, J. &	A Faber series approach to cardinal interpolation	58	255
WARD, J. D.	A 1 abox sories approach to cardinar interpolation	50	200
Cockburn, Bernardo & Triandaf, Ioana	Convergence of a finite element method for the drift-diffusion semiconductor device equations: the zero diffusion case	59	383
Cohn, Harvey &	Some singular moduli for $\mathbb{Q}(\sqrt{3})$	59	231
DEUTSCH, JESSE	Some singular moduli for $Q(\sqrt{3})$	39	231
Colbourn, Charles J., Magliveras, Spyros S. & Mathon, Rudolf A.	Transitive Steiner and Kirkman triple systems of order 27	58	441
COLBOURN, CHARLES J., MAGLIVERAS, SPYROS S. & STINSON, D. R.	Steiner triple systems of order 19 with nontrivial automorphism group	59	283
COPPOLETTA, GIUSEPPE	See: Bernardi, Christine, Coppoletta, Giuseppe & Maday, Yvon	59	63
Costabel, M., Penzel, F. & Schneider, R.	Error analysis of a boundary element collocation method for a screen problem in \mathbb{R}^3	58	575
Couzy, W.	See: van der Houwen, P. J., Sommeijer, B. P. & Couzy, W	58	135
CRANDALL, R. E.	See: Buhler, J. P., Crandall, R. E. & Sompolski, R. W.	59	717
CRISCI, M. R., RUSSO, E. & VECCHIO, A.	Stability results for one-step discretized colloca- tion methods in the numerical treatment of Volterra integral equations	58	119
Criscuolo, Giuliana, Mastroianni, Giuseppe & Vértesi, Péter	Pointwise simultaneous convergence of extended Lagrange interpolation with additional knots	59	515
van Daalen, Edwin F. G.	See: Broeze, Jan & van Daalen, Edwin F. G.	58	73
VAN DAALEN, EDWIN F. G., BROEZE, JAN &	Variational principles and conservation laws in the derivation of radiation boundary condi-	50	55
VAN GROESEN, EMBRECHT DAHMEN, WOLFGANG,	tions for wave equations	58	55
MICCHELLI, CHARLES A. & SEIDEL, HANS-PETER	B-patches	59	97
DAWSON, CLINT N. & DUPONT, TODD F.	Explicit/implicit conservative Galerkin domain decomposition procedures for parabolic problems .	58	21
DAY, DAVID	See: Batterson, Steve & Day, David	59	141
DEL CORSO, ILARIA	Factorization of prime ideal extensions in number		
,	rings	58	849
Delorme, Jean-Joël	On the Diophantine equation $x_1^6 + x_2^6 + x_3^6 = y_1^6 + y_2^6 + y_3^6 + \dots$	59	703
DEMPSEY, J. P.	See: Boersma, J. & Dempsey, J. P	59	157
DEUTSCH, JESSE	See: Cohn, Harvey & Deutsch, Jesse	59	231
DILCHER, KARL	Generalized Euler constants for arithmetical pro-	50	250

731

Author	Title	Vol.	Page
DI NATALE, M., Gotusso, L., Pavani, R. & Roux, D.	On the choice of parameter in a method for the inversion of Fourier series	58	737
Dörfler, W.	Hierarchical bases for elliptic problems	58	513
DUBNER, HARVEY	Partitions approximated by finite cosine-series .	58	729
DUPONT, TODD F.	See: DAWSON, CLINT N. & DUPONT, TODD F	58	21
Durán, Ricardo & Liberman, Elsa	On mixed finite element methods for the Reissner- Mindlin plate model	58	561
EDELMAN, ALAN	On the distribution of a scaled condition number	58	185
Eichenauer-Herrmann, Jürgen & Niederreiter, Harald	Lower bounds for the discrepancy of inversive congruential pseudorandom numbers with power of two modulus	58	775
ELLIOTT, CHARLES M. & LARSSON, STIG	Error estimates with smooth and nonsmooth data for a finite element method for the Cahn-	60	(02
Engress D 6	Hilliard equation	58 58	603
ERNVALL, R. & METSÄNKYLÄ, T.	Computation of the zeros of p-adic L-functions	38	815
ERNVALL, R. & METSÄNKYLÄ, T.	Cyclotomic invariants for primes to one million	59	249
FEINSILVER, P. & SCHOTT, R.	On Bessel functions and rate of convergence of zeros of Lommel polynomials	59	153
Fröberg, Carl-Erik	See: BOHMAN, JAN & FRÖBERG, CARL-ERIK	58	315
GALANT, DAVID	Algebraic methods for modified orthogonal polynomials	59	541
GAO, F.	See: Wasilkowski, G. W. & Gao, F	58	285
GATERMANN, KARIN, HOFFMANN, CHRISTOPH & OPFER, GERHARD	Explicit Faber polynomials on circular sectors	58	241
van der Geer, Gerard, Schoof, René & van der Vlugt, Marcel	Weight formulas for ternary Melas codes	58	781
GLASSEY, R. T.	Convergence of an energy-preserving scheme for the Zakharov equations in one space dimen-	50	92
GOLDFELD, DORIAN	On the computational complexity of modular symbols	58	83
Gotusso, L.	See: DI NATALE, M., GOTUSSO, L., PAVANI, R. &	58	737
Count. E & M. aus D	Roux, D Families of modular eigenforms	58	793
Gouvêa, F. & Mazur, B. Grady, Michael &	Some divisibility properties of the subgroup count-	36	
NEWMAN, MORRIS	ing function for free products	58	347
GREENLEE, W. M.	See: Beattie, Christopher & Greenlee, W. M.	59	77
GRÖCHENIG, KARLHEINZ	Reconstruction algorithms in irregular sampling	59	181
van Groesen, Embrecht	See: van Daalen, Edwin F. G., Broeze, Jan & van Groesen, Embrecht	58	55
Grothmann, R. & Mhaskar, H. N.	Detection of singularities using segment approximation	59	533
Guo, Ben-yu & Miller, J. J. H.	Iterative and Petrov-Galerkin methods for solving a system of one-dimensional nonlinear elliptic		
	equations	58	531

Author	Title	Vol.	Page
GUY, RICHARD K.	See: Bremner, Andrew & Guy, Richard K	59	195
Han, Houde & Wu, Xiaonan	The approximation of the exact boundary condi- tions at an artificial boundary for linear elastic equations and its application	59	21
HANSEN, TOM &	Primitive polynomials over finite fields	59	639
MULLEN, GARY L.	The second secon		
HEATH-BROWN, D. R.	The density of zeros of forms for which weak approximation fails	59	613
Hiss, Gerhard & Shamash, Josephine	2-blocks and 2-modular characters of the Chevalley groups $G_2(q)$	59	645
HOFFMANN, CHRISTOPH	See: Gatermann, Karin, Hoffmann, Christoph & Opfer, Gerhard	58	241
Hong, Y. P. & Pan, CT.	Rank-revealing QR factorizations and the singular value decomposition	58	213
Hou, Thomas Y.	A new desingularization for vortex methods	58	103
van der Houwen, P. J., Sommeijer, B. P. &	Embedded diagonally implicit Runge-Kutta algorithms on parallel computers	58	135
COUZY, W. HUNDSDORFER, WILLEM	Unconditional convergence of some Crank- Nicolson LOD methods for initial-boundary value problems	58	35
Jackiewicz, Z. & Zennaro, M.	Variable-stepsize explicit two-step Runge-Kutta methods	59	421
JAKUBEC, STANISLAV & MARKO, FRANTIŠEK	Witt equivalence classes of quartic number fields	58	355
Joe, Stephen & Sloan, Ian H.	On computing the lattice rule criterion R	59	557
KACEWICZ, B. Z. & PLASKOTA, L.	Termination conditions for approximating linear problems with noisy information	59	503
KECHKAR, NASSERDINE & SILVESTER, DAVID	Analysis of locally stabilized mixed finite element methods for the Stokes problem	58	1
KEIPER, J. B.	Power series expansions of Riemann's & function	58	765
LARSSON, STIG	See: Elliott, Charles M. & Larsson, Stig	58	603
LEHMAN, J. LARRY	Levels of positive definite ternary quadratic forms	58	399
LESAINT, P. & POUSIN, J.	Error estimates for a nonlinear degenerate parabolic problem	59	339
LEVILLAIN, VINCENT	Eigenvalue approximation by a mixed method for resonant inhomogeneous cavities with metallic boundaries	58	11
Li, T. Y. & Zeng, Zhonggang	Homotopy-determinant algorithm for solving non- symmetric eigenvalue problems	59	483
LIBERMAN, ELSA	See: Durán, Ricardo & Liberman, Elsa	58	561
LOUBOUTIN, STÉPHANE	L-functions and class numbers of imaginary qua- dratic fields and of quadratic extensions of an imaginary quadratic field	59	213
Maday, Yvon	See: Bernardi, Christine, Coppoletta, Giu- seppe & Maday, Yvon	59	63
Magliveras, Spyros S.	See: Colbourn, Charles J., Magliveras, Spyros S. & Mathon, Rudolf A	58	441

733

58

Author Title Vol. Page MAGLIVERAS, SPYROS S. See: COLBOURN, CHARLES J., MAGLIVERAS, SPYROS S. & STINSON, D. R. 59 283 MARKO, FRANTIŠEK See: JAKUBEC, STANISLAV & MARKO, FRANTIŠEK 355 58 MARTÍNEZ, JOSÉ MARIO On the relation between two local convergence theories of least-change secant update methods 59 457 MASTROIANNI, GIUSEPPE See: CRISCUOLO, GIULIANA, MASTROIANNI, GIU-SEPPE & VÉRTESI, PÉTER 59 515 See: COLBOURN, CHARLES J., MAGLIVERAS, MATHON, RUDOLF A. SPYROS S. & MATHON, RUDOLF A. 58 441 MAYER, DANIEL C. Multiplicities of dihedral discriminants 58 831 MAZUR, B. See: Gouvêa, F. & Mazur, B. 58 793 McConnell, Mark See: ASH, AVNER & McCONNELL, MARK 59 673 MEEK, D. S. & Clothoid spline transition spirals 59 117 WALTON, D. J. METSÄNKYLÄ, T. See: ERNVALL, R. & METSÄNKYLÄ, T. 58 815 METSÄNKYLÄ, T. See: ERNVALL, R. & METSÄNKYLÄ, T. 59 249 59 MHASKAR, H. N. See: GROTHMANN, R. & MHASKAR, H. N. 533 See: DAHMEN, WOLFGANG, MICCHELLI, MICCHELLI, CHARLES A. CHARLES A. & SEIDEL, HANS-PETER 59 97 MILLER, J. J. H. See: Guo, Ben-yu & Miller, J. J. H. 531 58 MOLLIN, R. A. & On real quadratic fields of class number two . . 625 WILLIAMS, H. C. 59 639 MULLEN, GARY L. See: HANSEN, TOM & MULLEN, GARY L. See: Bussemaker, F. C. & Neumaier, A. 583 NEUMAIER, A. 59 58 NEWMAN, MORRIS See: GRADY, MICHAEL & NEWMAN, MORRIS . . 347 The existence of efficient lattice rules for multidi-NIEDERREITER, HARALD mensional numerical integration 58 305 NIEDERREITER, HARALD See: EICHENAUER-HERRMANN, JÜRGEN & 58 775 NIER, FRANCIS See: ARNOLD, ANTON & NIER, FRANCIS 58 645 *NIIJIMA, KOICHI* A posteriori error bounds for piecewise linear approximate solutions of elliptic equations of 58 549 NOTARIS, SOTIRIOS E. On Gauss-Kronrod quadrature formulae of Che-745 58 OKUNBOR, DANIEL & Explicit canonical methods for Hamiltonian sys-SKEEL, ROBERT D. 59 439 OLIVIER, M. The computation of sextic fields with a cubic sub-58 419 field and no quadratic subfield OPFER, GERHARD See: GATERMANN, KARIN, HOFFMANN, CHRISTOPH 58 241 Runge-Kutta methods for partial differential equa-OSTERMANN, A. & tions and fractional orders of convergence . . 59 403 ROCHE, M. 58 213 PAN, C.-T. See: Hong, Y. P. & Pan, C.-T. 467 PASCIAK, JOSEPH E. See: Bramble, James H. & Pasciak, Joseph E. See: DI NATALE, M., GOTUSSO, L., PAVANI, R. & PAVANI, R. 737 58 575

See: COSTABEL, M., PENZEL, F. & SCHNEIDER, R.

PENZEL, F.

Author	Title	Vol.	Page
Peralta, René	On the distribution of quadratic residues and non-	**	
	residues modulo a prime number	58	433
Plaskota, L.	See: Kacewicz, B. Z. & Plaskota, L	59	503
PLONKA, G. & TASCHE, M.	Efficient algorithms for periodic Hermite spline interpolation	58	693
Pousin, J.	See: Lesaint, P. & Pousin, J	59	339
RICHTER, GERARD R.	The discontinuous Galerkin method with diffusion	58	631
Косне , М.	See: Ostermann, A. & Roche, M	59	403
Ron, Amos	See: DE BOOR, CARL & RON, AMOS	58	705
Roux, D.	See: Di Natale, M., Gotusso, L., Pavani, R. &		
Paus Carrey F	Roux, D	58	737
ROYLE, GORDON F.	See: Chee, Yeow Meng & Royle, Gordon F.	59	609
RUNDELL, WILLIAM & SACKS, PAUL E.	Reconstruction techniques for classical inverse Sturm-Liouville problems	58	161
Russo, E.	See: Crisci, M. R., Russo, E. & Vecchio, A	58	119
SACKS, PAUL E.	See: RUNDELL, WILLIAM & SACKS, PAUL E	58	161
SANDLING, ROBERT	Presentations for unit groups of modular group algebras of groups of order 16	59	689
SCHEIDLER, RENATE & WILLIAMS, HUGH C.	A method of tabulating the number-theoretic func-	59	251
SCHMITT, BERNHARD A.	tion $g(k)$	37	231
	stiff boundary value problems	58	191
Schneider, R.	See: Costabel, M., Penzel, F. & Schneider, R.	58	575
SCHOOF, RENÉ	See: van der Geer, Gerard, Schoof, René & van der Vlugt, Marcel	58	781
SCHOTT , R.	See: Feinsilver, P. & Schott, R	59	153
SCOTT, L. RIDGWAY & ZHANG, SHANGYOU	Higher-dimensional nonnested multigrid methods	58	457
SEIDEL, HANS-PETER	See: Dahmen, Wolfgang, Micchelli, Charles A. & Seidel, Hans-Peter	59	97
SHAMASH, JOSEPHINE	See: Hiss, Gerhard & Shamash, Josephine	59	645
SHOUP, VICTOR	Searching for primitive roots in finite fields	58	369
SILVESTER, DAVID	See: Kechkar, Nasserdine & Silvester, David	58	1
SKEEL, ROBERT D.	See: Okunbor, Daniel & Skeel, Robert D	59	439
SKORUPPA, NILS-PETER	Computations of Siegel modular forms of genus		
	two	58	381
SLOAN, IAN H.	See: Joe, Stephen & Sloan, Ian H	59	557
SOLDERITSCH, JAMES J.	Quadratic fields with special class groups	59	633
Sommeijer, B. P.	See: van der Houwen, P. J., Sommeijer, B. P. & Couzy, W	58	135
Sompolski, R. W.	See: Buhler, J. P., Crandall, R. E. & Sompolski, R. W.	59	717
Stewart, G. W.	Error analysis of QR updating with exponential windowing	59	135
STINSON, D. R.	See: Colbourn, Charles J., Magliveras, Spyros S. & Stinson, D. R.	59	283
STÖCKLER, J.	See: Chui, C. K., Stöckler, J. & Ward, J. D.	58	255

735

Author	Title	Vol.	Page
Strain, John	A fast Laplace transform based on Laguerre func-		
	tions	58	275
STROEKER, R. J.	Improvement of Nakamula's upper bound for the absolute discriminant of a sextic number field with two real conjugates	59	203
Süli, Endre	The accuracy of cell vertex finite volume methods on quadrilateral meshes	59	359
SUNG, LI-YENG	See: Brenner, Susanne C. & Sung, Li-Yeng	59	321
SURI, MANIL	See: Banerjee, Uday & Suri, Manil	59	1
TASCHE, M.	See: Plonka, G. & Tasche, M.	58	693
TEMME, N. M.	Asymptotic inversion of incomplete gamma func-	36	073
a Divinite, 14. 141.	tions	58	755
THOMÉE, V.	See: CHEN, C., THOMÉE, V. & WAHLBIN, L. B	58	587
TRAUB, J. F. &	The Monte Carlo algorithm with a pseudorandom		
Woźniakowski, H.	generator	58	323
TRIANDAF, IOANA	See: Cockburn, Bernardo & Triandaf, Ioana	59	383
Vassilevski, P. S.	Hybrid V-cycle algebraic multilevel precondi-		
	tioners	58	489
VECCHIO, A.	See: Crisci, M. R., Russo, E. & Vecchio, A	58	119
VÉRTESI, PÉTER	See: Criscuolo, Giuliana, Mastroianni, Giu- seppe & Vértesi, Péter	59	515
VAN DER VLUGT, MARCEL	See: VAN DER GEER, GERARD, SCHOOF, RENÉ &	58	781
WAHLBIN, L. B.	VAN DER VLUGT, MARCEL	58	587
WALKINGTON, NOEL J.	Convergence of nonconforming finite element approximations to first-order linear hyperbolic	36	367
	equations	58	671
WALTON, D. J.	See: MEEK, D. S. & WALTON, D. J	59	117
WARD, J. D.	See: Chui, C. K., Stöckler, J. & Ward, J. D	58	255
Wasilkowski, G. W. & Gao, F.	On the power of adaptive information for func- tions with singularities	58	285
WILLIAMS, H. C.	See: Mollin, R. A. & Williams, H. C.	59	625
WILLIAMS, HUGH C.	See: Scheidler, Renate & Williams, Hugh C.	59	251
Woźniakowski, H.	See: Traub. J. F. & Woźniakowski. H	58	323
Wu, Xiaonan	See: HAN, HOUDE & WU, XIAONAN	59	21
Xu, Jinchao & Cai,	A preconditioned GMRES method for nonsym-	3,	
XIAO-CHUAN	metric or indefinite problems	59	311
Xu, Yuan	Gaussian cubature and bivariate polynomial inter- polation	59	547
YEUNG, MAN-CHUNG	See: Chan, Raymond H. & Yeung, Man-	58	233
ZENG, ZHONGGANG	CHUNG	59	483
	See: LI, T. Y. & ZENG, ZHONGGANG	-	
ZENNARO, M.	See: Jackiewicz, Z. & Zennaro, M	59	421
ZHANG, SHANGYOU	See: Scott, L. Ridgway & Zhang, Shangyou	58	457
Zhu, Jiang	Finite element approximation to initial-boundary value problems of the semiconductor device equations with magnetic influence	59	39

INDEX OF REVIEWS BY AUTHOR OF WORK REVIEWED

Author	Review Number	Classification	Vol.	Page
ALLGOWER, EUGENE L. & GEORG, KURT	17	51M20, 57Q15, 65H10, 65-04	59	300
BANKS, H. T. & KUNISCH, K.	7	35R30, 65M30, 93B30	58	855
CHENEY, WARD	14	See: Kincaid, David & Cheney, Ward	59	297
CHUDNOVSKY, DAVID V. & JENKS, RICHARD D., Editors	13	68-06	58	863
CHUI, CHARLES K., Editor	23	41-06, 46-06	59	307
Cox, M. G. & Hammarling, S., Editors	15	65-06, 65Fxx, 65D07, 65K99	59	298
CRUTZEN, YVES R., MOLINARI, GIORGIO & RUBINACCI, GUGLIELMO, Editors	21	78-01, 78-04, 78-08	59	304
de Dier, Bart	8	See: Roose, Dirk, de Dier, Bart & Spence, Alastair, Editors	58	857
Dongarra, Jack J., Duff, Iain S., Soænsen, Danny C. & van der Vorst, Henk A.	9	65-02, 65F05, 65F10, 65N22	58	858
Duff, Iain S.	9	See: Dongarra, Jack J., Duff, Iain S., Sorensen, Danny C. & van der Vorst, Henk A.	58	858
GARBEY, MARC	19	See: Kaper, Hans G. & Garbey, Marc, Editors	59	303
GEORG, KURT	17	See: Allgower, Eugene L. & Georg Kurt	59	300
Glowinski, Roland & Le Tallec, Patrick	2	35J85, 73C50, 73E99, 73F99, 73K05, 65N30	58	451
GOLBERG, MICHAEL A., Editor	3	65N38, 65R20, 65L10, 45E10	58	452
Gómez, S., Hennart, J. P. & Tapia, R. A., Editors	25	65–06	59	308
GUSTAFSON, KARL E. & SETHIAN, JAMES A., Editors	18	65-02, 76-02, 76M25	59	302
Hammarling, S.	15	See: Cox, M. G. & Hammarling, S., Editors	59	298
Hämmerlin, Günther & Hoffmann, Karl-Heinz	6	65-01, 65Dxx, 65Fxx, 65Gxx, 65Hxx, 65Kxx	58	855
Harper, David, Wooff, Chris & Hodgkinson, David	28	68Q40, 65Y15, 65Y25, 11-04, 12-04, 13-04, 14-04, 30-04, 33-04	59	725
HENNART, J. P.	25	See: Gómez, S., Hennart, J. P. & Tapia, R. A., Editors	59	308
HODGKINSON, DAVID	28	See: Harper, David, Wooff, Chris & Hodgkinson, David	59	725
Hoffmann, Karl-Heinz	6	See: Hämmerlin, Günther & Hoffmann, Karl-Heinz	58	855

Author	Review Number	Classification	Vol.	Page
JENKS, RICHARD D.	13	See: Chudnovsky, David V. & Jenks, Richard D., Editors	58	863
KAPER, HANS G. & GARBEY, MARC, Editors	19	35-06, 35A20, 35B25, 35B40, 65-06, 65N06, 65N12	59	303
KINCAID, DAVID & CHENEY, WARD	14	65-01	59	297
Koonin, Steven E. & Meredith, Dawn C.	22	65-01, 65-04	59	305
Kunisch, K.	7	See: BANKS, H. T. & KUNISCH, K.	58	855
Laurent, Pierre-Jean, Le Méhauté, Alain & Schumaker, Larry L., Editots	24	14Qxx, 65-06, 65D17	59	307
Le Méhauté, Alain	24	See: Laurent, Pierre-Jean, Le Méhauté, Alain & Schumaker, Larry L., Editors	59	307
LE TALLEC, PATRICK	2	See: Glowinski, Roland & Le Tallec, Patrick	58	451
LINDGREN, MICHAEL	4	01A55, 01A70, 68-03	58	454
McCormick, Stephen F.	1	65N30, 65N50, 65F10	58	451
Meredith, Dawn C.	22	See: Koonin, Steven E. & Meredith Dawn C.	59	305
MESIROV, JILL P., Editor	26	65-06	59	723
Molinari, Giorgio	21	See: Crutzen, Yves R., Molinari, Giorgio & Rubinacci, Guglielmo		204
NEVAI, PAUL & PINKUS, ALLAN,	11	Editors 41A99	59 58	304 860
Editors				
Papalambros, Panos Y. & Wilde, Douglass J.	29	90-01, 90 B 99	59	726
Pinkus, Allan	11	See: Nevai, Paul & Pinkus, Allan, Editors	58	860
RIVLIN, THEODORE J.	10	33-01, 33C50, 41-01, 11-01	58	859
ROOSE, DIRK, DE DIER, BART & SPENCE, ALASTAIR, Editors	8	65-06, 65P05, 65H20, 35B32, 58F14	58	857
RUBINACCI, GUGLIELMO	21	See: CRUTZEN, YVES R., MOLINARI, GIORGIO & RUBINACCI, GUGLIELMO Editors	59	304
SCHUMAKER, LARRY L.	24	See: Laurent, Pierre-Jean, Le Méhauté, Alain & Schumaker, Larry L., Editors	59	307
Sethian, James A.	18	See: Gustafson, Karl E. & Sethian James A., Editors		302
Sorensen, Danny C.	9	See: Dongarra, Jack J., Duff, Iain S., Sorensen, Danny C. & van der Vorst, Henk A.	58	858
SPENCE, ALASTAIR	8	See: Roose, Dirk, de Dier, Bart & Spence, Alastair, Editors	58	857
SPIGLER, RENATO, Editor	5	65-06, 70-06, 76-06, 93-06	58	455
SPROTT, JULIEN C.	20	65-04	59	304
TAPIA, R. A.	25	See: Gómez, S., Hennart, J. P. & Tapia, R. A., Editors	59	308

Author	Review Number	Title	Vol.	Page
VAN DER VORST, HENK A.	9	See: Dongarra, Jack J., Duff,	<i>roi</i> .	ruge
		IAIN S., SORENSEN, DANNY C. & VAN DER VORST, HENK A.	58	858
VANDEWALLE, JOOS	27	See: Van Huffel, Sabine & Vande- walle, Joos	59	724
Van Huffel, Sabine & Vandewalle, Joos	27	65–02, 15A18, 65U05	59	724
WATKINS, DAVID S.	16	65-01, 65Fxx	59	299
WILDE, DOUGLASS J.	29	See: Papalambros, Panos Y. & Wilde, Douglass J.	59	726
Wolfram, Stephen	12	68Q40, 65Y15, 65Y25, 11-04, 12-04, 13-04, 14-04, 30-04, 33-04	58	860
Wooff, Chris	28	See: Harper, David, Wooff, Chris & Hodgkinson, David	59	725
INDEX OF REVIEWS	BY SU	JBJECT OF WORK REV	IEW	/ED
01-XX History and biography				
01A55 19th century				
LINDGREN, MICHAEL	4	Glory and Failure: The Difference Engines of Johann Müller, Charles Babbage and Georg and Edvard Scheutz		454
01A70 Biographies, obituar	ies, person	alia, bibliographies		
Lindgren, Michael	4	Glory and Failure: The Difference Engines of Johann Müller, Charles Babbage and Georg and Edvard Scheutz		454
11-XX Number theory				
11-01 Instructional exposit	ion			
RIVLIN, THEODORE J.	10	Chebyshev Polynomials: From Approximation Theory to Algebra and Number Theory		859
11-04 Explicit machine con	nputation	and programs		
HARPER, DAVID, WOOFF, CHRIS & HODGKINSON, DAVID	28	A Guide to Computer Algebra Systems	59	725
Wolfram, Stephen	12	Mathematica—A System for Doing Mathematics by Computer	58	860
12-XX Field theory and polyno	omials			
12-04 Explicit machine con	nputation	and programs		
HARPER, DAVID, WOOFF, CHRIS & HODGKINSON, DAVID	28	A Guide to Computer Algebra Systems	59	725
Wolfram, Stephen	12	Mathematica—A System for Doing Mathematics by Computer	58	860
13-XX Commutative rings and	algebras			
13-04 Explicit machine con	nputation	and programs		
HARPER, DAVID, WOOFF, CHRIS & HODGKINSON, DAVID	28	A Guide to Computer Algebra Sys-	50	725

tems

59

725

HODGKINSON, DAVID

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED 739 Review Author Number Title Vol Page WOLFRAM, STEPHEN 12 Mathematica-A System for Doing Mathematics by Computer 58 860 14-XX Algebraic geometry 14-04 Explicit machine computation and programs HARPER, DAVID, WOOFF, CHRIS & 28 A Guide to Computer Algebra Sys-HODGKINSON, DAVID tems 59 725 WOLFRAM, STEPHEN 12 Mathematica-A System for Doing Mathematics by Computer 58 860 14Qxx Computational aspects in algebraic geometry 24 LAURENT, PIERRE-JEAN. Curves and Surfaces 59 307 LE MÉHAUTÉ. ALAIN & SCHUMAKER, LARRY L., Editors 15-XX Linear and multilinear algebra; matrix theory 15A18 Eigenvalues, singular values, and eigenvectors 27 VAN HUFFEL, SABINE & The Total Least Squares Problem: VANDEWALLE, JOOS Computational Aspects and Anal-59 vsis 724 30-XX General reference works 30-04 Explicit machine computation and programs HARPER, DAVID, WOOFF, CHRIS & 28 A Guide to Computer Algebra Sys-HODGKINSON, DAVID 725 WOLFRAM, STEPHEN 12 Mathematica-A System for Doing Mathematics by Computer 860 33-XX Special functions 33-01 Instructional exposition RIVLIN, THEODORE J. 10 Chebyshev Polynomials: From Approximation Theory to Algebra 58 and Number Theory 859 33-04 Explicit machine computation and programs HARPER, DAVID, WOOFF, CHRIS & 28 A Guide to Computer Algebra Sys-HODGKINSON, DAVID tems 59 725 WOLFRAM, STEPHEN 12 Mathematica-A System for Doing Mathematics by Computer 860 33C50 Orthogonal polynomials and functions in several variables RIVLIN, THEODORE J. 10 Chebyshev Polynomials: From Approximation Theory to Algebra 58 859 and Number Theory 35-06 Proceedings, conferences, collections, etc. KAPER, HANS G. & GARBEY, MARC, 19 Asymptotic Analysis and the Numer-**Editors** ical Solution of Partial Differential 303 Equations 35A20 Analytic methods, singularities KAPER, HANS G. & GARBEY, MARC. Asymptotic Analysis and the Numer-**Editors** ical Solution of Partial Differential 59 303 **Equations**

740	NDEA OF REVIE	N S D I	SUBJECT OF WORK REVIEWED		
	Author	Review Number	Title	Vol.	Page
35B25	Singular perturbations				
KAPER, HANS G. Editors	& GARBEY, MARC,	19	Asymptotic Analysis and the Numerical Solution of Partial Differential Equations	59	303
35B32	Bifurcation				
ROOSE, DIRK, DI SPENCE, ALAS	E DIER, BART & STAIR, Editors	8	Continuation and Bifurcations: Numerical Techniques and Applications	58	857
35 B 40	Asymptotic behavior o	fsolution	as		
KAPER, HANS G. Editors	& Garbey, Marc,	19	Asymptotic Analysis and the Numerical Solution of Partial Differential Equations	59	303
35J85 B	Unilateral problems an	id variati	ional inequalities for elliptic PDE		
GLOWINSKI, ROL LE TALLEC, F		2	Augmented Lagrangian and Operator- Splitting Methods in Nonlinear Mechanics	58	451
35R30	Inverse problems (und		ed coefficients, etc.) for PDE		
Banks, H. T. &	KUNISCH, K.	7	Estimation Techniques for Distributed Parameter Systems	58	855
41-XX Ap	proximations and expa	ansions			
41-01	Instructional expositio	n			
RIVLIN, THEODO	ere J.	10	Chebyshev Polynomials: From Approximation Theory to Algebra and Number Theory	58	859
41-06	Proceedings, conferenc	es, collec	ctions, etc.		
Chui, Charles	K., Editor	23	Approximation Theory and Functional Analysis	59	307
41A99	Miscellaneous topics				
Neval, Paul & Editors	Pinkus, Allan,	11	Progress in Approximation Theory	58	860
45-XX Int	egral equations				
45E10	Integral equations of t	he convo	lution type		
GOLBERG, MICH	AEL A., Editor	3	Numerical Solution of Integral Equa- tions	58	452
46-XX Fu	nctional analysis				
46-06	Proceedings, conference	es, collec	ctions, etc.		
Chui, Charles	K., Editor	23	Approximation Theory and Functional Analysis	59	307
51-XX Ge	ometry				
51M20	Polyhedra and polyto	pes; regu	lar figures, division of spaces		
ALLGOWER, EUG GEORG, KUR		17	Numerical Continuation Methods— An Introduction	59	300
57-XX M	anifolds and cell comp	lexes			
57Q15	Triangulating manifo	lds			
ALLGOWER, EUG GEORG, KUR	GENE L. &	17	Numerical Continuation Methods— An Introduction	59	300

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED 741 Review Author Number Title Vol. Page 58-XX Global analysis, analysis on manifolds 58F14 Bifurcation theory and singularities ROOSE, DIRK, DE DIER, BART & 2 Continuation and Bifurcations: Nu-SPENCE, ALASTAIR, Editors merical Techniques and Appli-58 857 65-XX Numerical analysis 65-01 Instructional exposition HÄMMERLIN, GÜNTHER & Numerical Mathematics 58 855 6 HOFFMANN, KARL-HEINZ KINCAID, DAVID & CHENEY, WARD 14 Numerical Analysis-Mathematics of 59 Scientific Computing 297 KOONIN, STEVEN E. & 22 Computational Physics-Fortran Ver-MEREDITH, DAWN C. 59 305 WATKINS, DAVID S. 16 Fundamentals of Matrix Computa-299 tions 65-02 Research exposition (monographs, survey articles) DONGARRA, JACK J., DUFF, Solving Linear Systems on Vector and IAIN S., SORENSEN, DANNY C. & **Shared Memory Computers** 58 858 VAN DER VORST, HENK A. GUSTAFSON, KARL E. & 18 Vortex Methods and Vortex Motion 302 SETHIAN, JAMES A., Editors VAN HUFFEL, SABINE & 27 The Total Least Squares Problem: VANDEWALLE, JOOS Computational Aspects and Anal-59 ysis 724 65-04 Explicit machine computation and programs ALLGOWER, EUGENE L. & 17 Numerical Continuation Methods-GEORG, KURT An Introduction 59 300 KOONIN, STEVEN E. & 22 Computational Physics-Fortran Ver-MEREDITH, DAWN C. 59 305 20 SPROTT, JULIEN C. Numerical Recipes-Routines and 59 304 Examples in BASIC 65-06 Proceedings, conferences, collections, etc. COX, M. G. & HAMMARLING, S., 15 Reliable Numerical Computation 59 298 **Editors** GÓMEZ, S., HENNART, J. P. & 25 Advances in Numerical Partial Differential Equations and Optimiza-TAPIA, R. A., Editors 59 308 KAPER, HANS G. & GARBEY, MARC, 19 Asymptotic Analysis and the Numerical Solution of Partial Differential Editors 59 303 Equations 307 LAURENT, PIERRE-JEAN, 24 Curves and Surfaces 59 LE MÉHAUTÉ, ALAIN & SCHUMAKER, LARRY L., Editors MESIROV, JILL P., Editor 26 Very Large Scale Computation in the 723 21st Century ROOSE, DIRK, DE DIER, BART & 8 Continuation and Bifurcations: Numerical Techniques and Appli-SPENCE, ALASTAIR, Editors 857 cations 58

5

Applied and Industrial Mathematics

58

455

SPIGLER, RENATO, Editor

742	INDEX OF REVII	EWS BY	SUBJECT OF WORK REVIEWED)	
	Author	Review Number	Title	Vol.	Page
65Dxx	Numerical approxim	ation			
Hämmerlin, C Hoffmann	GÜNTHER & KARL-HEINZ	6	Numerical Mathematics	58	855
65D07	Splines				
Cox, M. G. & Editors	Hammarling, S.,	15	Reliable Numerical Computation	59	298
65D17	Computer aided desi	ign (modei	ling of curves and surfaces)		
	ré, Alain & R, Larry L., Editors	24	Curves and Surfaces	59	307
	Numerical linear alg				
Cox, M. G. & Editors	Hammarling, S.,	15	Reliable Numerical Computation	59	298
Hämmerlin, C Hoffmann	GÜNTHER & , KARL-HEINZ	6	Numerical Mathematics	58	855
WATKINS, DAV	ID S.	16	Fundamentals of Matrix Computations	59	299
65F05	Direct methods for li	near system	ms and matrix inversion		
	CK J., DUFF, RENSEN, DANNY C. & DRST, HENK A.	9	Solving Linear Systems on Vector and Shared Memory Computers	58	858
65F10	Iterative methods for	linear sys	tems		
,	CK J., DUFF, RENSEN, DANNY C. & ORST, HENK A.	9	Solving Linear Systems on Vector and Shared Memory Computers	58	858
McCormick, S	STEPHEN F.	1	Multilevel Adaptive Methods for Partial Differential Equations	58	451
65Gxx	Error analysis				
Hämmerlin, C Hoffmann	GÜNTHER & , KARL-HEINZ	6	Numerical Mathematics	58	855
65Hxx	Nonlinear algebraic	or transce	ndental equations		
Hämmerlin, C Hoffmann	GÜNTHER & , KARL-HEINZ	6	Numerical Mathematics	58	855
65H10	Systems of equation	S			
ALLGOWER, EU GEORG, KU		17	Numerical Continuation Methods— An Introduction	59	300
65H20	Global methods, inc	luding hor	notopy approaches		
	DE DIER, BART & ASTAIR, Editors	8	Continuation and Bifurcations: Nu- merical Techniques and Appli- cations		857
65Kxx	Mathematical progr	amming, c	optimization and variational techniques		
Hämmerlin, (GÜNTHER & , KARL-HEINZ	6	Numerical Mathematics	58	855
65K99	None of the above, l	but in this	section		
Cox, M. G. & Editors	Hammarling, S.,	15	Reliable Numerical Computation	59	298
65L10	Boundary value prob	blems			
	CHAEL A., Editor	3	Numerical Solution of Integral Equations	58	452

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED 743 Review Author Number Title Vol. Page 65M30 Improperly posed problems BANKS, H. T. & KUNISCH, K. **Estimation Techniques for Distributed** Parameter Systems 58 855 65N06 Finite difference methods KAPER, HANS G. & GARBEY, MARC, Asymptotic Analysis and the Numer-Editors ical Solution of Partial Differential 59 303 **Equations** 65N12 Stability and convergence of numerical methods KAPER, HANS G. & GARBEY, MARC, 19 Asymptotic Analysis and the Numerical Solution of Partial Differential Editors 59 303 65N22 Solution of discretized equations DONGARRA, JACK J., DUFF. Solving Linear Systems on Vector and IAIN S., SORENSEN, DANNY C. & **Shared Memory Computers** 858 VAN DER VORST, HENK A. 65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods GLOWINSKI, ROLAND & Augmented Lagrangian and Operator-Splitting Methods in Nonlinear LE TALLEC, PATRICK Mechanics 58 451 McCormick, Stephen F. Multilevel Adaptive Methods for Partial Differential Equations 58 451 65N38 Boundary element methods GOLBERG, MICHAEL A., Editor Numerical Solution of Integral Equa-58 452 65N50 Mesh generation and refinement McCormick, Stephen F. Multilevel Adaptive Methods for Par-58 451 tial Differential Equations 65P05 Partial differential equations, miscellaneous problems Continuation and Bifurcations: Nu-ROOSE, DIRK, DE DIER, BART & merical Techniques and Appli-SPENCE, ALASTAIR, Editors 58 857 cations 65R20 Integral equations GOLBERG, MICHAEL A., Editor Numerical Solution of Integral Equa-58 452 65U05 Numerical methods in probability and statistics 27 The Total Least Squares Problem: VAN HUFFEL, SABINE & Computational Aspects and Anal-VANDEWALLE, JOOS 59 724 vsis 65Y15 Packaged methods HARPER, DAVID, WOOFF, CHRIS & 28 A Guide to Computer Algebra Sys-59 725 HODGKINSON, DAVID 12 Mathematica-A System for Doing WOLFRAM, STEPHEN 58 860 Mathematics by Computer 65Y25 Computer graphics and computational geometry HARPER, DAVID, WOOFF, CHRIS & A Guide to Computer Algebra Sys-50 725 HODGKINSON, DAVID WOLFRAM, STEPHEN 12 Mathematica—A System for Doing 860 Mathematics by Computer 58

744 INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

744	INDEX OF REVII	EWS BY	SUBJECT OF WORK REVIEWED)	
	Author	Review Number	Title	Vol.	Page
68-0	3 Historical				
LINDGREN, I	MICHAEL	4	Glory and Failure: The Difference Engines of Johann Müller, Charles Babbage and Georg and Edvard Scheutz	58	454
68-0	6 Proceedings, conferen	ices, collec			
JENKS, R	Y, DAVID V. & ICHARD D., Editors	13	Computers in Mathematics	58	863
	40 Symbolic computation				
	vid, Wooff, Chris & NSON, DAVID	28	A Guide to Computer Algebra Systems	59	725
WOLFRAM,	STEPHEN	12	Mathematica—A System for Doing Mathematics by Computer	58	860
70-XX	Mechanics of particles	and system	ns		
70-0	06 Proceedings, conferen	nces, collec	tions, etc.		
	ENATO, Editor	5	Applied and Industrial Mathematics	58	455
73-XX	Mechanics of solids				
73C	50 Nonlinear elasticity				
GLOWINSKI, LE TALL	ROLAND & EC, PATRICK	2	Augmented Lagrangian and Operator- Splitting Methods in Nonlinear Mechanics		451
73E9	99 None of the above, b	ut in this s	section		
GLOWINSKI, LE TALL	ROLAND & EC, PATRICK	2	Augmented Lagrangian and Operator- Splitting Methods in Nonlinear Mechanics		451
73F9	99 None of the above, b	ut in this s	section		
	ec, Patrick	2	Augmented Lagrangian and Operator- Splitting Methods in Nonlinear Mechanics		451
	05 Beams, columns, ro				
	ROLAND & EC, PATRICK	2	Augmented Lagrangian and Operator- Splitting Methods in Nonlinear Mechanics		451
76-XX	Fluid mechanics				
76-0	02 Research exposition	(monogra	ohs, survey articles)		
GUSTAFSON	, KARL E. & , JAMES A., Editors	18	Vortex Methods and Vortex Motion	59	302
76-0	06 Proceedings, confere	nces, collec	ctions, etc.		
SPIGLER, RI	ENATO, Editor	5	Applied and Industrial Mathematics	58	455
76M	125 Other numerical m	ethods			
	, KARL E. & , JAMES A., Editors	. 18	Vortex Methods and Vortex Motion	59	302
78-XX	Optics, electromagnetic	c theory			
78-	01 Instructional exposit	tion			
CRUTZEN, Y		21	Industrial Application of Electromagnetic Computer Codes	59	304
	,,,				

INDE	X OF	SUPPLEMENTS		745
Author		Title	Vol.	Page
78-04 Explicit machine compr	utation	and programs		
Crutzen, Yves R., Molinari, Giorgio & Rubinacci, Guglielmo, Editors	21	Industrial Application of Electromagnetic Computer Codes	59	304
78-08 Computational methods	2			
Crutzen, Yves R., Molinari, Giorgio & Rubinacci, Guglielmo, Editors	21	Industrial Application of Electromagnetic Computer Codes	59	304
90-XX Economics, operations res	earch,	programming, games		
90-01 Instructional exposition				
Papalambros, Panos Y. & Wilde, Douglass J.	29	Principles of Optimal Design — Modeling and Computation	59	726
90B99 None of the above, but	in this	section		
Papalambros, Panos Y. & Wilde, Douglass J.	29	Principles of Optimal Design — Modeling and Computation	59	726
93-XX Systems theory; control				
93-06 Proceedings, conference	s, colle	ections, etc.		
SPIGLER, RENATO, Editor	5	Applied and Industrial Mathematics	58	455
93B30 System identification				
BANKS, H. T. & KUNISCH, K.	7	Estimation Techniques for Distributed Parameter Systems	58	855
IND	EX	OF ERRATA		
		Tiel.	1/-1	D
No. Author 614 Abramowitz, M. & Stegun, 1 Editors	I. A.,	Title Handbook of Mathematical Functions with Formulas, Graphs and Math-	Vol.	Page
		ematical Tables	59	727
INDEX	OF	CORRIGENDA		
			** 1	
Author Dummit, D. S.		Title Solving solvable quintics	Vol. 59	Page 309
INDEX	OF	SUPPLEMENTS		
Author		Title	Vol.	Issue
Bremner, Andrew & Guy, Richard K.		ement to "Nu-configurations in tiling the uare"		July
Cockburn, Bernardo & Triandaf, Ioana	co	ement to "Convergence of a finite ele- ent method for the drift-diffusion semi- nductor device equations: the zero diffu-		
COLBOURN, CHARLES J.,		on case" lement to "Transitive Steiner and Kirk-	59	Oct.
MAGLIVERAS, SPYROS S. &		an triple systems of order 27"	58	Jan.

MATHON, RUDOLF A.

Author	Title	Vol.	Issue
Colbourn, Charles J., Magliveras, Spyros S. & Stinson, D. R.	Supplement to "Steiner triple systems of order 19 with nontrivial automorphism group"	59	July
DILCHER, KARL	Supplement to "Generalized Euler constants for arithmetical progressions"	59	July
Dörfler, W.	Supplement to "Hierarchical bases for elliptic problems"	58	April
ELLIOTT, CHARLES M. & LARSSON, STIG	Supplement to "Error estimates with smooth and nonsmooth data for a finite element method for the Cahn-Hilliard equation"	58	April
Ernvall, R. & Metsänkylä, T.	Supplement to "Computation of the zeros of p-adic L-functions"	58	April
GATERMANN, KARIN, HOFFMANN, CHRISTOPH & OPFER, GERHARD	Supplement to "Explicit Faber polynomials on circular sectors"	58	Jan.
HANSEN, TOM & MULLEN, GARY L.	Supplement to "Primitive polynomials over fi- nite fields"	59	Oct.
Lehman, J. Larry	Supplement to "Levels of positive definite ter- nary quadratic forms"	58	Jan.
Mayer, Daniel C.	Supplement to "Multiplicities of dihedral dis- criminants"	58	April
NIEDERREITER, HARALD	Supplement to "The existence of efficient lat- tice rules for multidimensional numerical		
	integration"	58	Jan.

INDEX OF MICROFICHE SUPPLEMENTS

	Author	Title	Vol.	Issue
Buss	SEMAKER, F. C. & NEUMAIER, A.	Exceptional graphs with smallest eigenvalue -2		
		and related problems	59	Oct.
CHE	e, Yeow Meng &	Enumeration of small nonisomorphic 1-rota-		
R	loyle, Gordon F.	tional twofold triple systems	59	Oct.
DUM	IMIT, D. S.	Solving solvable quintics	59	July

